ABSTRACT

A sensor for use in an interactive electronic device. The sensor comprises a housing having a side wall defining an inner surface, a top plate attached to the side wall and defining an inner surface, and a bottom plate attached to the side wall and also defining an inner surface. The inner surfaces of the side wall and the top and bottom plates collectively define an interior chamber. Disposed on the inner surface of the top plate is at least one top conductive pad, while disposed on the inner surface of the bottom plate is at least one bottom conductor pad. At least one switch partially extends into the interior chamber of the housing. Disposed within the interior chamber and rotatably connected to the housing is a trigger mechanism. The sensor is operative to generate a plurality of different conditions or states corresponding to respective positions of the housing relative to a reference plane. The conditions are generated by the movement of the housing relative to the reference plane, and the resultant contact between the trigger mechanism and at least one of the top conductive pad, the bottom conductive pad, and the switch.